



PCT

## RAW SEQUENCE LISTING

DATE: 08/31/2004

PATENT APPLICATION: US/10/505,230

TIME: 16:46:45

Input Set : A:\NOB-10 SEQ LISTING.txt

Output Set: N:\CRF4\08312004\J505230.raw

3 <110> APPLICANT: VAN DEN BRINK, Gijs Robert  
 4 PEPPELENBOSCH, Maikel Petrus  
 5 HARDWICK, Hames Christopher Henry  
 6 VAN DEVENTER, Sander Jan Hendrik  
 8 <120> TITLE OF INVENTION: Hedgehog-related prophylaxis, therapy and diagnosis of  
 9 GI tract carcinogenesis  
 11 <130> FILE REFERENCE: 28902.nob10  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/505,230  
 14 <141> CURRENT FILING DATE: 2004-08-20  
 16 <150> PRIOR APPLICATION NUMBER: PCT/NL03/00127  
 17 <151> PRIOR FILING DATE: 2003-02-20  
 19 <150> PRIOR APPLICATION NUMBER: EP 02075690.4  
 20 <151> PRIOR FILING DATE: 2002-02-20  
 22 <160> NUMBER OF SEQ ID NOS: 3  
 24 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

179 <210> SEQ ID NO: 3  
 180 <211> LENGTH: 462  
 181 <212> TYPE: PRT  
 182 <213> ORGANISM: Homo sapiens  
 184 <220> FEATURE:  
 185 <223> OTHER INFORMATION: Human Sonic hedgehog protein  
 187 <400> SEQUENCE: 3  
 188 Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu  
 189 1 5 10 15  
 191 Leu Val Cys Ser Gly Leu Ala Cys Gly Pro Gly Arg Gly Phe Gly Lys  
 192 20 25 30  
 194 Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys Gln Phe Ile  
 195 35 40 45  
 197 Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg Tyr Glu Gly  
 198 50 55 60  
 200 Lys Ile Ser Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr Pro Asn Tyr  
 201 65 70 75 80  
 203 Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly Ala Asp Arg  
 204 85 90 95  
 206 Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu Ala Ile Ser  
 207 100 105 110  
 209 Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr Glu Gly Trp  
 210 115 120 125  
 212 Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr Glu Gly Arg

Does Not Comply  
 Corrected Diskette Needed

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```

213      130      135      140
215 Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys Tyr Gly Met
216 145      150      155      160
218 Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr Glu
219      165      170      175
221 Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn Ser Val Ala
222      180      185      190
224 Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val His Leu Glu
225      195      200      205
227 Gln Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly Asp Arg Val
228      210      215      220
230 Leu Ala Ala Asp Asp Gln Gly Arg Leu Leu Tyr Ser Asp Phe Leu Thr
231 225      230      235      240
233 Phe Leu Asp Arg Asp Asp Gly Ala Lys Lys Val Phe Tyr Val Ile Glu
234      245      250      255
236 Thr Arg Glu Pro Arg Glu Arg Leu Leu Thr Ala Ala His Leu Leu
237      260      265      270
239 Phe Val Ala Pro His Asn Asp Ser Ala Thr Gly Glu Pro Glu Ala Ser
240      275      280      285
242 Ser Gly Ser Gly Pro Pro Ser Gly Gly Ala Leu Gly Pro Arg Ala Leu
243      290      295      300
245 Phe Ala Ser Arg Val Arg Pro Gly Gln Arg Val Tyr Val Val Ala Glu
246 305      310      315      320
248 Arg Asp Gly Asp Arg Arg Leu Leu Pro Ala Ala Val His Ser Val Thr
249      325      330      335
251 Leu Ser Glu Glu Ala Ala Gly Ala Tyr Ala Pro Leu Thr Ala Gln Gly
252      340      345      350
254 Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys Tyr Ala Val Ile Glu
255      355      360      365
257 Glu His Ser Trp Ala His Arg Ala Phe Ala Pro Phe Arg Leu Ala His
258      370      375      380
260 Ala Leu Leu Ala Ala Leu Ala Pro Ala Arg Thr Asp Arg Gly Gly Asp
261 385      390      395      400
263 Ser Gly Gly Gly Asp Arg Gly Gly Gly Gly Arg Val Ala Leu Thr
264      405      410      415
266 Ala Pro Gly Ala Ala Asp Ala Pro Gly Ala Gly Ala Thr Ala Gly Ile
267      420      425      430
269 His Trp Tyr Ser Gln Leu Leu Tyr Gln Ile Gly Thr Trp Leu Leu Asp
270      435      440      445
272 Ser Glu Ala Leu His Pro Leu Gly Met Ala Val Lys Ser Ser
273      450      455      460

```

E--&gt; 275 ??

E--&gt; 277 ??

E--&gt; 278 (footnote continued from previous page)

E--&gt; 280 (footnote continued on next page)

*delete*

## VERIFICATION SUMMARY

DATE: 08/31/2004

PATENT APPLICATION: US/10/505,230

TIME: 16:46:46

Input Set : A:\NOB-10 SEQ LISTING.txt

Output Set: N:\CRF4\08312004\J505230.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:275 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:275 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1  
L:277 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3  
L:277 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:277 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1  
M:332 Repeated in SeqNo=3  
L:278 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:278 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:5  
L:280 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:280 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:5  
L:280 M:252 E: No. of Seq. differs, <211> LENGTH:Input:462 Found:472 SEQ:3